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## Planning for the future of particle physics

*Tuesday 10 September 2024 09:00 (30 minutes)*

The field of particle physics is currently in unknown territory, facing the question of how to further explore the frontier represented by the standard model of particle physics. With several questions left unanswered and a plethora of models for physics beyond the standard model, a very broad program of exploration for new phenomena and particles, with masses ranging over several tens of orders of magnitude is being pursued or planned. A key element of this future exploration will be the next big collider that will operate at the energy frontier. With the major players in the global high energy physics scene having completed their corresponding strategy processes either several years ago (Japan with the ILC and China with the CEPC) or recently (US with the P5 process), all eyes are now turned to Europe. The talk will provide an overview of current options and plans for formulating a strategy for the future of European, and thus also global, particle physics.

**Presenter:** SPHICAS, Paris (CERN/Athens)

**Session Classification:** HEP & BHEP applications (part I)